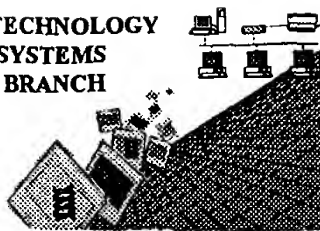


RAW SEQUENCE LISTING
ERROR REPORT

BIOTECHNOLOGY
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1838
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TECH CENTER 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/529,239B
Source: 1600
Date Processed by STIC: 10/3/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

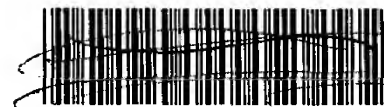
Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/529,239B

DATE: 10/21/2002
TIME: 18:20:24

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Does Not Comply
Corrected Diskette Needed

pp 1-2, 5-9

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TECH CENTER 1600/2900

1 <110> APPLICANT: Doutriaux, Marie-Pascale
2 Betzner, Andreas
3 Freyssinet, Georges
4 Perez, Pascal
5 <120> TITLE OF INVENTION: METHOD FOR OBTAINING PLANT VARIETIES
6 <130> FILE REFERENCE: A33153-PCT-USA 072667.0128
7 <140> CURRENT APPLICATION NUMBER: US/09/529,239B
8 <141> CURRENT FILING DATE: 2000-10-27
9 <150> PRIOR APPLICATION NUMBER: PCT/EP98/06977
10 <151> PRIOR FILING DATE: 1998-10-09
11 <160> NUMBER OF SEQ ID NOS: 103

ERRORED SEQUENCES

153 <210> SEQ ID NO: 12
154 <211> LENGTH: 1250
155 <212> TYPE: DNA
156 <213> ORGANISM: Arabidopsis thaliana ecotype Columbia
157 <223> OTHER INFORMATION: Clone 52
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161 gccactgtat ccttctctcc ttccaagcgt aagcttctct cggaccacct cgccgccgcg 180
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*insert this
mandatory numeric identifier
→ <220> whenever*

*<221>
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or <223>
is
shown*

RAW SEQUENCE LISTING

DATE: 10/21/2002

PATENT APPLICATION: US/09/529,239B

TIME: 18:20:24

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Output Set: N:\CRF4\10212002\I529239B.raw

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203 <212> TYPE: DNA

204 <213> ORGANISM: Arabidopsis thaliana ecotype Columbia

205 <223> OTHER INFORMATION: Clone 13

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206 <400> SEQUENCE: 15

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483 <210> SEQ ID NO: 19

484 <211> LENGTH: 1081

485 <212> TYPE: PRT

486 <213> ORGANISM: Arabidopsis thaliana ecotype Columbia

487 <223> OTHER INFORMATION: Polypeptide MSH3

same error

E--> 488 <400> SEQUENCE: 19

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RAW SEQUENCE LISTING

DATE: 10/21/2002

PATENT APPLICATION: US/09/529,239B

TIME: 18:20:24

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Output Set: N:\CRF4\10212002\I529239B.raw

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493   Pro Pro Pro Lys Ile Ser Ala Thr Val Ser Phe Ser Pro Ser Lys Arg
494           35                40                45
495   Lys Leu Leu Ser Asp His Leu Ala Ala Ala Ser Pro Lys Lys Pro Lys
496           50                55                60
497   Leu Ser Pro His Thr Gln Asn Pro Val Pro Asp Pro Asn Leu His Gln
498           65                70                75                80
499   Arg Phe Leu Gln Arg Phe Leu Glu Pro Ser Pro Glu Glu Tyr Val Pro
500           85                90                95
501   Glu Thr Ser Ser Ser Arg Lys Tyr Thr Pro Leu Glu Gln Gln Val Val
502           100               105               110
503   Glu Leu Lys Ser Lys Tyr Pro Asp Val Val Leu Met Val Glu Val Gly
504           115               120               125
505   Tyr Arg Tyr Arg Phe Phe Gly Glu Asp Ala Glu Ile Ala Ala Arg Val
506           130               135               140
507   Leu Gly Ile Tyr Ala His Met Asp His Asn Phe Met Thr Ala Ser Val
508           145               150               155               160
509   Pro Thr Phe Arg Leu Asn Phe His Val Arg Arg Leu Val Asn Ala Gly
510           165               170               175
511   Tyr Lys Ile Gly Val Val Lys Gln Thr Glu Thr Ala Ala Ile Lys Ser
512           180               185               190
513   His Gly Ala Asn Arg Thr Gly Pro Phe Phe Arg Gly Leu Ser Ala Leu
514           195               200               205
515   Tyr Thr Lys Ala Thr Leu Glu Ala Ala Glu Asp Ile Ser Gly Gly Cys
516           210               215               220
517   Gly Gly Glu Glu Gly Phe Gly Ser Gln Ser Asn Phe Leu Val Cys Val
518           225               230               235               240
519   Val Asp Glu Arg Val Lys Ser Glu Thr Leu Gly Cys Gly Ile Glu Met
520           245               250               255
521   Ser Phe Asp Val Arg Val Gly Val Val Gly Val Glu Ile Ser Thr Gly
522           260               265               270
523   Glu Val Val Tyr Glu Glu Phe Asn Asp Asn Phe Met Arg Ser Gly Leu
524           275               280               285
525   Glu Ala Val Ile Leu Ser Leu Ser Pro Ala Glu Leu Leu Leu Gly Gln
526           290               295               300
527   Pro Leu Ser Gln Gln Thr Glu Lys Phe Leu Val Ala Met Ala Gly Pro
528           305               310               315               320
529   Thr Ser Asn Val Arg Val Glu Arg Ala Ser Leu Asp Cys Phe Ser Asn
530           325               330               335
531   Gly Asn Ala Val Asp Glu Val Ile Ser Leu Cys Glu Lys Ile Ser Ala
532           340               345               350
533   Gly Asn Leu Glu Asp Asp Lys Glu Met Lys Leu Glu Ala Ala Glu Lys
534           355               360               365
535   Gly Met Ser Cys Leu Thr Val His Thr Ile Met Asn Met Pro His Leu
536           370               375               380
537   Thr Val Gln Ala Leu Ala Leu Thr Phe Cys His Leu Lys Gln Phe Gly
538           385               390               395               400
539   Phe Glu Arg Ile Leu Tyr Gln Gly Ala Ser Phe Arg Ser Leu Ser Ser

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RAW SEQUENCE LISTING

DATE: 10/21/2002

PATENT APPLICATION: US/09/529,239B

TIME: 18:20:24

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Output Set: N:\CRF4\10212002\I529239B.raw

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543	Val	Lys	Asn	Asn	Ser	Asp	Gly	Ser	Glu	Ser	Gly	Ser	Leu	Phe	His	Asn
544			435					440					445			
545	Met	Asn	His	Thr	Leu	Thr	Val	Tyr	Gly	Ser	Arg	Leu	Leu	Arg	His	Trp
546		450					455					460				
547	Val	Thr	His	Pro	Leu	Cys	Asp	Arg	Asn	Leu	Ile	Ser	Ala	Arg	Leu	Asp
548		465				470					475				480	
549	Ala	Val	Ser	Glu	Ile	Ser	Ala	Cys	Met	Gly	Ser	His	Ser	Ser	Ser	Gln
550				485						490					495	
551	Leu	Ser	Ser	Glu	Leu	Val	Glu	Glu	Gly	Ser	Glu	Arg	Ala	Ile	Val	Ser
552			500						505					510		
553	Pro	Glu	Phe	Tyr	Leu	Val	Leu	Ser	Ser	Val	Leu	Thr	Ala	Met	Ser	Arg
554			515					520					525			
555	Ser	Ser	Asp	Ile	Gln	Arg	Gly	Ile	Thr	Arg	Ile	Phe	His	Arg	Thr	Ala
556		530					535					540				
557	Lys	Ala	Thr	Glu	Phe	Ile	Ala	Val	Met	Glu	Ala	Ile	Leu	Leu	Ala	Gly
558		545				550					555				560	
559	Lys	Gln	Ile	Gln	Arg	Leu	Gly	Ile	Lys	Gln	Asp	Ser	Glu	Met	Arg	Ser
560				565						570					575	
561	Met	Gln	Ser	Ala	Thr	Val	Arg	Ser	Thr	Leu	Leu	Arg	Lys	Leu	Ile	Ser
562			580						585					590		
563	Val	Ile	Ser	Ser	Pro	Val	Val	Val	Asp	Asn	Ala	Gly	Lys	Leu	Leu	Ser
564			595					600					605			
565	Ala	Leu	Asn	Lys	Glu	Ala	Ala	Val	Arg	Gly	Asp	Leu	Leu	Asp	Ile	Leu
566		610					615					620				
567	Ile	Thr	Ser	Ser	Asp	Gln	Phe	Pro	Glu	Leu	Ala	Glu	Ala	Arg	Gln	Ala
568		625				630					635				640	
569	Val	Leu	Val	Ile	Arg	Glu	Lys	Leu	Asp	Ser	Ser	Ile	Ala	Ser	Phe	Arg
570				645						650					655	
571	Lys	Lys	Leu	Ala	Ile	Arg	Asn	Leu	Glu	Phe	Leu	Gln	Val	Ser	Gly	Ile
572			660						665					670		
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574			675					680					685			
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576		690					695					700				
577	Ile	Val	Ala	Gly	Leu	Asp	Glu	Leu	Ala	Leu	Ala	Thr	Glu	His	Leu	Ala
578		705				710					715				720	
579	Ile	Val	Asn	Arg	Ala	Ser	Trp	Asp	Ser	Phe	Leu	Lys	Ser	Phe	Ser	Arg
580				725						730					735	
581	Tyr	Tyr	Thr	Asp	Phe	Lys	Ala	Ala	Val	Gln	Ala	Leu	Ala	Ala	Leu	Asp
582				740					745					750		
583	Cys	Leu	His	Ser	Leu	Ser	Thr	Leu	Ser	Arg	Asn	Lys	Asn	Tyr	Val	Arg
584			755					760					765			
585	Pro	Glu	Phe	Val	Asp	Asp	Cys	Glu	Pro	Val	Glu	Ile	Asn	Ile	Gln	Ser
586		770					775					780				
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RAW SEQUENCE LISTING

DATE: 10/21/2002

PATENT APPLICATION: US/09/529,239B

TIME: 18:20:24

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Output Set: N:\CRF4\10212002\I529239B.raw

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591   Gly Pro Asn Met Gly Gly Lys Ser Cys Tyr Ile Arg Gln Val Ala Leu
592                               820                               825           830
593   Ile Ser Ile Met Ala Gln Val Gly Ser Phe Val Pro Ala Ser Phe Ala
594                               835                               840           845
595   Lys Leu His Val Leu Asp Gly Val Phe Thr Arg Met Gly Ala Ser Asp
596                               850                               855           860
597   Ser Ile Gln His Gly Arg Ser Thr Phe Leu Glu Glu Leu Ser Glu Ala
598   865                               870                               875           880
599   Ser His Ile Ile Arg Thr Cys Ser Ser Arg Ser Leu Val Ile Leu Asp
600                               885                               890           895
601   Glu Leu Gly Arg Gly Thr Ser Thr His Asp Gly Val Ala Ile Ala Tyr
602                               900                               905           910
603   Ala Thr Leu Gln His Leu Leu Ala Glu Lys Arg Cys Leu Val Leu Phe
604                               915                               920           925
605   Val Thr His Tyr Pro Glu Ile Ala Glu Ile Ser Asn Gly Phe Pro Gly
606                               930                               935           940
607   Ser Val Gly Thr Tyr His Val Ser Tyr Leu Thr Leu Gln Lys Asp Lys
608   945                               950                               955           960
609   Gly Ser Tyr Asp His Asp Asp Val Thr Tyr Leu Tyr Lys Leu Val Arg
610                               965                               970           975
611   Gly Leu Cys Ser Arg Ser Phe Gly Phe Lys Val Ala Gln Leu Ala Gln
612                               980                               985           990
613   Ile Pro Pro Ser Cys Ile Arg Arg Ala Ile Ser Met Ala Ala Lys Leu
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615   Glu Ala Glu Val Arg Ala Arg Glu Arg Asn Thr Arg Met Gly Glu Pro
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617   Glu Gly His Glu Glu Pro Arg Gly Ala Glu Glu Ser Ile Ser Ala Leu
618   1025                               1030                               1035          1040
619   Gly Asp Leu Phe Ala Asp Leu Lys Phe Ala Leu Ser Glu Glu Asp Pro
620                               1045                               1050          1055
621   Trp Lys Ala Phe Glu Phe Leu Lys His Ala Trp Lys Ile Ala Gly Lys
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686 <211> LENGTH: 2188

687 <212> TYPE: DNA

688 <213> ORGANISM: Arabidopsis thaliana ecotype Columbia

689 <223> OTHER INFORMATION: Clone 43

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693   tttaatgtga aggaagggga tgctaaaggc gacgcttctg tacgttttgc tgtttcgaaa      180
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RAW SEQUENCE LISTING

DATE: 10/21/2002

PATENT APPLICATION: US/09/529,239B

TIME: 18:20:24

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717	cttagtgctc	ttggagagct	aattaatcat	ctgtctaggc	taaagctaga	agatgtactt	1620
718	aagcatgggg	atatttttcc	ataccaagtt	tacaggggtt	gtctcagaat	tgatggccag	1680
719	acgatggtaa	atcttgagat	atttaacaat	agctgtgatg	gtggtccttc	agggaccttg	1740
720	tacaaatata	ttgataactg	tgtagtcca	actggttaagc	gactcttaag	gaattggatc	1800
721	tgccatccac	tcaaagatgt	agaaagcatc	aataaacggc	ttgatgtagt	tgaagaattc	1860
722	acggcaaaact	cagaaagtat	gcaaatacact	ggccagtatc	tccacaaaact	tccagactta	1920
723	gaaagactgc	tcggacgcat	caagtctagc	gttcgatcat	cagcctctgt	gttgctgtct	1980
724	cttctgggga	aaaaagtgtc	gaaacaacga	gttaaagcat	ttgggcaaat	tgtgaaaggg	2040
725	ttcagaagtg	gaattgatct	gttggttggt	ctacagaagg	aatcaaatat	gatgagtttg	2100
726	ctttataaac	tctgtaaaact	tcctatatta	gtaggaaaaa	gcgggctaga	gttatttctt	2160
727	tctcaattcg	aagcagccat	agatagcg				2188

729 <210> SEQ ID NO: 27

730 <211> LENGTH: 1385

731 <212> TYPE: DNA

732 <213> ORGANISM: Arabidopsis thaliana ecotype Columbia

733 <223> OTHER INFORMATION: Clone 62

E--> 734 <400> SEQUENCE: 27

735	catcagcctc	tgtgttgcc	gctcttcttg	ggaaaaaagt	gctgaaacaa	cgagttaaag	60
736	catttgggca	aattgtgaaa	gggttcagaa	gtggaattga	tctgttggtg	gctctacaga	120
737	aggaatcaaa	tatgatgagt	ttgctttata	aactctgtaa	acttctata	ttagtaggaa	180
738	aaagcgggct	agagttattt	ctttctcaat	tcgaagcagc	catagatagc	gactttccaa	240
739	attatcagaa	ccaagatgtg	acagatgaaa	acgctgaaac	tctcacaata	cttatcgaa	300
740	tttttatcga	aagagcaact	caatggtctg	aggtcattca	caccataaag	tcgctagatg	360
741	tcctgagatc	ttttgcaatc	gcagcaagtc	tctctgctgg	aagcatggcc	aggcctgtta	420
742	tttttcccg	atcagaagct	acagatcaga	atcagaaaac	aaaagggcc	atacttaaaa	480
743	tccaaggact	atggcatcca	tttgagttg	cagccgatgg	tcaattgcct	gttccgaatg	540
744	ataactcct	tggcgaggct	agaagaagca	gtggcagcat	tcatcctcgg	tcattgttac	600
745	tgacgggacc	aaacatgggc	ggaaaatcaa	ctcttcttcg	tgcaacatgt	ctggccgtta	660
746	tccttgccca	acttggctgc	tacgtgccgt	gtgagtcctg	cgaaatctcc	ctcgtggata	720
747	ctatcttcac	aaggcttggc	gcatctgata	gaatcatgac	aggagagagt	acctttttgg	780

RAW SEQUENCE LISTING

DATE: 10/21/2002

PATENT APPLICATION: US/09/529,239B

TIME: 18:20:24

Input Set : N:\Crf4\Refhold\I529239B.raw

Output Set: N:\CRF4\10212002\I529239B.raw

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748      tagaatgcac tgagacagcg tcagttcttc agaatgcaac tcaggattca ctagtaatcc      840
749      ttgacgaact gggcagagga actagtactt tcgatggata cgccattgca tactcggttt      900
750      ttogtcacct ggtagagaaa gttcaatgtc ggatgctctt tgcaacacat taccaccctc      960
751      tcaccaagga attcgcgtct caccacgctg tcacctcgaa acacatggct tgcgcattca      1020
752      aatcaagatc tgattatcaa ccacgtggtt gtgatcaaga cctagtgttc ttgtaccggt      1080
753      taaccgaggg agcttgtcct gagagctacg gacttcaagt ggcaactcat gctggaatac      1140
754      caaaccaagt ggttgaaaca gcatcagggt ctgctcaagc catgaagaga tcaattgggg      1200
755      aaaacttcaa gtcaagtgag ctaagatctg agttctcaag tctgcatgaa gactggctca      1260
756      agtcattggg ggggtatttct cgagtcgccc acaacaatgc cccattggc gaagatgact      1320
757      acgacacttt gttttgctta tggcatgaga tcaaatcctc ttactgtgtt cccaaataac      1380
758      ccggg                                     1385

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1005 <210> SEQ ID NO: 31

1006 <211> LENGTH: 1109

1007 <212> TYPE: PRT

1008 <213> ORGANISM: Arabidopsis thaliana ecotype Columbia

1009 <223> OTHER INFORMATION: Polypeptide MSH6

E--> 1010 <400> SEQUENCE: 31

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1011      Met Gln Arg Gln Arg Ser Ile Leu Ser Phe Phe Gln Lys Pro Thr Ala
1012           1                    5              10              15
1013      Ala Thr Thr Lys Gly Leu Val Ser Gly Asp Ala Ala Ser Gly Gly Gly
1014           20              25              30
1015      Gly Ser Gly Gly Pro Arg Phe Asn Val Arg Glu Gly Asp Ala Lys Gly
1016           35              40              45
1017      Asp Ala Ser Val Arg Phe Ala Val Ser Lys Ser Val Asp Glu Val Arg
1018           50              55              60
1019      Gly Thr Asp Thr Pro Pro Glu Lys Val Pro Arg Arg Val Leu Pro Ser
1020           65              70              75              80
1021      Gly Phe Lys Pro Ala Glu Ser Ala Gly Asp Ala Ser Ser Leu Phe Ser
1022           85              90              95
1023      Asn Ile Met His Lys Phe Val Lys Val Asp Asp Arg Asp Cys Ser Gly
1024           100             105             110
1025      Glu Arg Ser Arg Glu Asp Val Val Pro Leu Asn Asp Ser Ser Leu Cys
1026           115             120             125
1027      Met Lys Ala Asn Asp Val Ile Pro Gln Phe Arg Ser Asn Asn Gly Lys
1028           130             135             140
1029      Thr Gln Glu Arg Asn His Ala Phe Ser Phe Ser Gly Arg Ala Glu Leu
1030           145             150             155             160
1031      Arg Ser Val Glu Asp Ile Gly Val Asp Gly Asp Val Pro Gly Pro Glu
1032           165             170             175
1033      Thr Pro Gly Met Arg Pro Arg Ala Ser Arg Leu Lys Arg Val Leu Glu
1034           180             185             190
1035      Asp Glu Met Thr Phe Lys Glu Asp Lys Val Pro Val Leu Asp Ser Asn
1036           195             200             205
1037      Lys Arg Leu Lys Met Leu Gln Asp Pro Val Cys Gly Glu Lys Lys Glu
1038           210             215             220
1039      Val Asn Glu Gly Thr Lys Phe Glu Trp Leu Glu Ser Ser Arg Ile Arg
1040           225             230             235             240
1041      Asp Ala Asn Arg Arg Arg Pro Asp Asp Pro Leu Tyr Asp Arg Lys Thr
1042           245             250             255

```

Use of n and/or Xaa has been detected in the Sequence Listing.

Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

RAW SEQUENCE LISTING

DATE: 10/21/2002

PATENT APPLICATION: US/09/529,239B

TIME: 18:20:24

Input Set : N:\Crf4\Refhold\I529239B.raw

Output Set: N:\CRF4\10212002\I529239B.raw

1043	Leu	His	Ile	Pro	Pro	Asp	Val	Phe	Lys	Lys	Met	Ser	Ala	Ser	Gln	Lys
1044				260					265					270		
1045	Gln	Tyr	Trp	Ser	Val	Lys	Ser	Glu	Tyr	Met	Asp	Ile	Val	Leu	Phe	Phe
1046			275					280					285			
1047	Lys	Val	Gly	Lys	Phe	Tyr	Glu	Leu	Tyr	Glu	Leu	Asp	Ala	Glu	Leu	Gly
1048		290					295				300					
1049	His	Lys	Glu	Leu	Asp	Trp	Lys	Met	Thr	Met	Ser	Gly	Val	Gly	Lys	Cys
1050	305					310					315					320
1051	Arg	Gln	Val	Gly	Ile	Ser	Glu	Ser	Gly	Ile	Asp	Glu	Ala	Val	Gln	Lys
1052				325						330					335	
1053	Leu	Leu	Ala	Arg	Gly	Tyr	Lys	Val	Gly	Arg	Ile	Glu	Gln	Leu	Glu	Thr
1054			340						345					350		
1055	Ser	Asp	Gln	Ala	Lys	Ala	Arg	Gly	Ala	Asn	Thr	Ile	Ile	Pro	Arg	Lys
1056			355					360					365			
1057	Leu	Val	Gln	Val	Leu	Thr	Pro	Ser	Thr	Ala	Ser	Glu	Gly	Asn	Ile	Gly
1058		370					375					380				
1059	Pro	Asp	Ala	Val	His	Leu	Leu	Ala	Ile	Lys	Glu	Ile	Lys	Met	Glu	Leu
1060	385					390					395					400
1061	Gln	Lys	Cys	Ser	Thr	Val	Tyr	Gly	Phe	Ala	Phe	Val	Asp	Cys	Ala	Ala
1062				405					410						415	
1063	Leu	Arg	Phe	Trp	Val	Gly	Ser	Ile	Ser	Asp	Asp	Ala	Ser	Cys	Ala	Ala
1064			420						425					430		
1065	Leu	Gly	Ala	Leu	Leu	Met	Gln	Val	Ser	Pro	Lys	Glu	Val	Leu	Tyr	Asp
1066		435					440					445				
1067	Ser	Lys	Gly	Leu	Ser	Arg	Glu	Ala	Gln	Lys	Ala	Leu	Arg	Lys	Tyr	Thr
1068		450				455						460				
1069	Leu	Thr	Gly	Ser	Thr	Ala	Val	Gln	Leu	Ala	Pro	Val	Pro	Gln	Val	Met
1070	465					470					475					480
1071	Gly	Asp	Thr	Asp	Ala	Ala	Gly	Val	Arg	Asn	Ile	Ile	Glu	Ser	Asn	Gly
1072				485						490					495	
1073	Tyr	Phe	Lys	Gly	Ser	Ser	Glu	Ser	Trp	Asn	Cys	Ala	Val	Asp	Gly	Leu
1074			500						505					510		
1075	Asn	Glu	Cys	Asp	Val	Ala	Leu	Ser	Ala	Leu	Gly	Glu	Leu	Ile	Asn	His
1076		515						520					525			
1077	Leu	Ser	Arg	Leu	Lys	Leu	Glu	Asp	Val	Leu	Lys	His	Gly	Asp	Ile	Phe
1078		530				535						540				
1079	Pro	Tyr	Gln	Val	Tyr	Arg	Gly	Cys	Leu	Arg	Ile	Asp	Gly	Gln	Thr	Met
1080	545					550					555					560
1081	Val	Asn	Leu	Glu	Ile	Phe	Asn	Asn	Ser	Cys	Asp	Gly	Gly	Pro	Ser	Gly
1082				565						570					575	
1083	Thr	Leu	Tyr	Lys	Tyr	Leu	Asp	Asn	Cys	Val	Ser	Pro	Thr	Gly	Lys	Arg
1084			580						585					590		
1085	Leu	Leu	Arg	Asn	Trp	Ile	Cys	His	Pro	Leu	Lys	Asp	Val	Glu	Ser	Ile
1086		595					600						605			
1087	Asn	Lys	Arg	Leu	Asp	Val	Val	Glu	Glu	Phe	Thr	Ala	Asn	Ser	Glu	Ser
1088		610					615					620				
1089	Met	Gln	Ile	Thr	Gly	Gln	Tyr	Leu	His	Lys	Leu	Pro	Asp	Leu	Glu	Arg
1090	625					630					635					640
1091	Leu	Leu	Gly	Arg	Ile	Lys	Ser	Ser	Val	Arg	Ser	Ser	Ala	Ser	Val	Leu

RAW SEQUENCE LISTING

DATE: 10/21/2002

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TIME: 18:20:24

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Output Set: N:\CRF4\10212002\I529239B.raw

1092				645				650				655		
1093	Pro	Ala	Leu	Leu	Gly	Lys	Lys	Val	Leu	Lys	Gln	Arg	Val	Lys
1094				660				665					670	
1095	Gly	Gln	Ile	Val	Lys	Gly	Phe	Arg	Ser	Gly	Ile	Asp	Leu	Leu
1096				675				680					685	
1097	Leu	Gln	Lys	Glu	Ser	Asn	Met	Met	Ser	Leu	Leu	Tyr	Lys	Leu
1098				690				695				700		
1099	Leu	Pro	Ile	Leu	Val	Gly	Lys	Ser	Gly	Leu	Glu	Leu	Phe	Leu
1100						710					715			720
1101	Phe	Glu	Ala	Ala	Ile	Asp	Ser	Asp	Phe	Pro	Asn	Tyr	Gln	Asn
1102						725					730			735
1103	Val	Thr	Asp	Glu	Asn	Ala	Glu	Thr	Leu	Thr	Ile	Leu	Ile	Glu
1104						740					745			750
1105	Ile	Glu	Arg	Ala	Thr	Gln	Trp	Ser	Glu	Val	Ile	His	Thr	Ile
1106						755					760		765	
1107	Leu	Asp	Val	Leu	Arg	Ser	Phe	Ala	Ile	Ala	Ala	Ser	Leu	Ser
1108						770					775		780	
1109	Ser	Met	Ala	Arg	Pro	Val	Ile	Phe	Pro	Glu	Ser	Glu	Ala	Thr
1110						785					790			800
1111	Asn	Gln	Lys	Thr	Lys	Gly	Pro	Ile	Leu	Lys	Ile	Gln	Gly	Leu
1112						805					810			815
1113	Pro	Phe	Ala	Val	Ala	Ala	Asp	Gly	Gln	Leu	Pro	Val	Pro	Asn
1114						820					825			830
1115	Leu	Leu	Gly	Glu	Ala	Arg	Arg	Ser	Ser	Gly	Ser	Ile	His	Pro
1116						835					840		845	
1117	Leu	Leu	Leu	Thr	Gly	Pro	Asn	Met	Gly	Gly	Lys	Ser	Thr	Leu
1118						850					855		860	
1119	Ala	Thr	Cys	Leu	Ala	Val	Ile	Phe	Ala	Gln	Leu	Gly	Cys	Tyr
1120						865					870			880
1121	Cys	Glu	Ser	Cys	Glu	Ile	Ser	Leu	Val	Asp	Thr	Ile	Phe	Thr
1122						885					890			895
1123	Gly	Ala	Ser	Asp	Arg	Ile	Met	Thr	Gly	Glu	Ser	Thr	Phe	Leu
1124						900					905			910
1125	Cys	Thr	Glu	Thr	Ala	Ser	Val	Leu	Gln	Asn	Ala	Thr	Gln	Asp
1126						915					920			925
1127	Val	Ile	Leu	Asp	Glu	Leu	Gly	Arg	Gly	Thr	Ser	Thr	Phe	Asp
1128						930					935			940
1129	Ala	Ile	Ala	Tyr	Ser	Val	Phe	Arg	His	Leu	Val	Glu	Lys	Val
1130						945					950			955
1131	Arg	Met	Leu	Phe	Ala	Thr	His	Tyr	His	Pro	Leu	Thr	Lys	Glu
1132						965					970			975
1133	Ser	His	Pro	Arg	Val	Thr	Ser	Lys	His	Met	Ala	Cys	Ala	Phe
1134						980					985			990
1135	Arg	Ser	Asp	Tyr	Gln	Pro	Arg	Gly	Cys	Asp	Gln	Asp	Leu	Val
1136						995					1000			1005
1137	Tyr	Arg	Leu	Thr	Glu	Gly	Ala	Cys	Pro	Glu	Ser	Tyr	Gly	Leu
1138						1010					1015			1020
1139	Ala	Leu	Met	Ala	Gly	Ile	Pro	Asn	Gln	Val	Val	Glu	Thr	Ala
1140						1025					1030			1035
														1040

RAW SEQUENCE LISTING

DATE: 10/21/2002

PATENT APPLICATION: US/09/529,239B

TIME: 18:20:24

Input Set : N:\Crf4\Refhold\I529239B.raw

Output Set: N:\CRF4\10212002\I529239B.raw

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1141   Ala Ala Gln Ala Met Lys Arg Ser Ile Gly Glu Asn Phe Lys Ser Ser
1142                1045                1050                1055
1143   Glu Leu Arg Ser Glu Phe Ser Ser Leu His Glu Asp Trp Leu Lys Ser
1144                1060                1065                1070
1145   Leu Val Gly Ile Ser Arg Val Ala His Asn Asn Ala Pro Ile Gly Glu
1146                1075                1080                1085
1147   Asp Asp Tyr Asp Thr Leu Phe Cys Leu Trp His Glu Ile Lys Ser Ser
1148                1090                1095                1100
1149   Tyr Cys Val Pro Lys
1150                1105

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/529,239B

DATE: 10/21/2002
TIME: 18:20:25

Input Set : N:\Crf4\Refhold\I529239B.raw
Output Set: N:\CRF4\10212002\I529239B.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 30
Seq#:2; Line(s) 53
Seq#:3; Line(s) 68
Seq#:4; Line(s) 78
Seq#:5; Line(s) 88
Seq#:6; Line(s) 98
Seq#:7; Line(s) 108
Seq#:8; Line(s) 118
Seq#:9; Line(s) 128
Seq#:10; Line(s) 138
Seq#:11; Line(s) 148
Seq#:12; Line(s) 175,176,177,178
Seq#:13; Line(s) 186
Seq#:14; Line(s) 196
Seq#:15; Line(s) 223,224,225,226,227,228,229,230,231,232,233,234,235,236
Seq#:15; Line(s) 237,238,239,240,241
Seq#:16; Line(s) 249
Seq#:17; Line(s) 259
Seq#:18; Line(s) 271,479,480
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Seq#:21; Line(s) 641
Seq#:22; Line(s) 650
Seq#:23; Line(s) 660
Seq#:24; Line(s) 670
Seq#:25; Line(s) 680
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Seq#:26; Line(s) 721,722,723,724,725,726,727
Seq#:27; Line(s) 751,752,753,754,755,756,757
Seq#:28; Line(s) 765
Seq#:29; Line(s) 775
Seq#:30; Line(s) 787,1001,1002
Seq#:32; Line(s) 1157
Seq#:33; Line(s) 1166
Seq#:34; Line(s) 1175
Seq#:35; Line(s) 1185
Seq#:36; Line(s) 1195
Seq#:37; Line(s) 1205
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Seq#:43; Line(s) 1265

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/529,239B

DATE: 10/21/2002
TIME: 18:20:25

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Seq#:92; Line(s) 1755

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/529,239B

DATE: 10/21/2002
TIME: 18:20:25

Input Set : N:\Crf4\Refhold\I529239B.raw
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Seq#:98; Line(s) 1921,1922,1923,1924,1925,1926,1927,1928,1929,1930,1931
Seq#:98; Line(s) 1932,1933,1934,1935,1936,1937,1938,1939,1940,1941,1942
Seq#:98; Line(s) 1943,1944,1945,1946,1947,1948,1949,1950

VERIFICATION SUMMARY

DATE: 10/21/2002

PATENT APPLICATION: US/09/529,239B

TIME: 18:20:25

Input Set : N:\Crf4\Refhold\I529239B.raw

Output Set: N:\CRF4\10212002\I529239B.raw

L:7 M:270 C: Current Application Number differs, Wrong Format
L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:158 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:12
L:206 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:15
L:488 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:19
L:690 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:26
L:734 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:27
L:1010 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:31